DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-7928

rec'd SCL Bnk.
9-18-07

CASE NARRATIVE

Wood & TCLP

1. THIS ANALYTICAL REPORT PACKAGE WAS PREPARED FOR SCL SAMPLES AQ02212 - AQ02218

   SAMPLE AUTHORIZATION NO.: 06SC0279

   SAMPLES INCLUDED IN THIS ANALYTICAL BATCH : AQ02212, AQ02213, AQ02214, AQ02215, AQ02216, AQ02217 AND AQ02218

2. SAMPLES WERE FROM UCCE RICHMOND FIELD STATION (C/O STEVE QUARIES)

   WOOD SAMPLES WERE COLLECTED AND GROUND ON VARIOUS DATES.

   TCLP SAMPLES WERE EXTRACTED ON 6/26/07-6/27/07.

3. COLLECTOR'S NAME ON THE SAMPLE ANALYSIS REQUEST FORM IS MARTIN SNIDER

4. SAMPLES WERE:

   RECEIVED ON 6/28/2007 BY ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH

   WOOD SAMPLES (AQ02212-AQ02215) WERE:

   EXTRACTED ON 7/2/2007-7/3/2007 BY EPA METHOD 3540 (SOXHLET EXTRACTION)

   CLEANUP ON 7/10/2007 BY EPA METHOD 3640 (GEL PERMEATION COLUMN CLEANUP)

   ANALYZED ON 7/13/2007 & 7/18/2007 BY EPA METHOD 8270C (SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS)

   TCLP EXTRACTS (AQ02216-AQ02218) WERE:

   EXTRACTED ON 7/5/2007 BY EPA METHOD 3510 (SEPARATORY FUNNEL LIQ/LIQ EXTRACTION)

   ANALYZED ON 7/17/2007 & 7/18/2007 BY EPA METHOD 8270C (SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS)

   DATA PACKAGE WAS COMPLETED ON 9/6/2007

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-7928

CASE NARRATIVE (CONT'D)

5. DURING THE COURSE OF THESE ANALYSES, THE TREATED WOOD SAMPLES (AQ02214-AQ02215) HAD CONSIDERABLE BACKGROUND. ADDITIONAL TARGET COMPOUNDS MAYBE PRESENT BUT CANNOT BE BE CONFIRMED DUE TO THE HIGH BACKGROUND.

6. FOR THE QC PARAMETERS / INDICATORS:

FOR THE METHOD STANDARDS AND LABORATORY CONTROL SAMPLES, THERE WERE A FEW COMPOUNDS THAT WERE RECOVERED ABOVE OR BELOW THE CONTROL LIMITS.

FOR THE MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLES, A NUMBER OF SPIKED COMPOUNDS WERE RECOVERED ABOVE THE CONTROL LIMITS, ESPECIALLY FOR THE TCLP EXTRACT SAMPLES. NOTE THE CONTROL LIMITS WERE ESTABLISHED FOR SOIL/SOLID AND WATER MATRICES WHICH MAY NOT BE INDICATIVE OF THE WOOD AND TCLP EXTRACT SAMPLES BEING ANALYZED.

FOR THE WOOD SAMPLES, TWO SURROGATES FOR ONE SAMPLE (AQ02215) WERE RECOVERED ABOVE THE CONTROL LIMITS AND ONE SURROGATE (*2,4,6-TRIBROMOPHENOL*) WAS NOT RECOVERED. FOR THE DUPLICATE SAMPLES (AQ02214), THE RELATIVE PERCENT DIFFERENCES BETWEEN THE DUPLICATES WERE OUTSIDE THE ACCEPTANCE LIMITS. SAMPLE IS NOT HOMOGENEOUS

FOR THE TCLP EXTRACT SAMPLES, THREE OF THE SURROGATES (I.E., *NITROBENZENE-D5*, *2-FLUOROBIPHENYL* AND *2,4,6-TRIBROMOPHENOL*) TEND TO RECOVER ABOVE THE CONTROL LIMITS. NOTE THE CONTROL LIMITS WERE ESTABLISHED FOR WATER MATRIX WHICH MAY NOT BE INDICATIVE OF THE TCLP EXTRACT SAMPLES BEING ANALYZED.

7. INSTRUMENT INITIAL CALIBRATION & CONTINUING CALIBRATION CRITERIA WERE LARGELY MET.

FOR *BENZO(B)FLUORANTHENE* AND *BENZO(A)PYRENE*, THE PERCENT RELATIVE STANDARD DEVIATION (%RSD) FOR THE CALIBRATION CURVES WERE GREATER THAN 15%. THEREFORE, THE REPORTED VALUES ARE ESTIMATES.

8. SAMPLE HOLDING TIME WAS MET. DUE TO LABORATORY ERROR, THE METHOD BLANK FOR THE TCLP EXTRACT AND THE DUPLICATE WOOD SAMPLE (AQ02214) WERE ANALYZED AFTER HOLDING TIME HAS PASSED.

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

ENVIRONMENTAL CHEMISTRY LABORATORY
SAMPLE ANALYSIS REQUEST

1. Authorization Number: 06SC0279

ECL No.: AQ02212 To AQ02218

2. Page 1 of 1

3. Requestor: (to Receive Results)
a. Name: Martin Snider
b. Address: 700 Heinz Ave., Suite 100 (street number)
Bekeley, CA 94710 (city, state, zip)
c. Phone: (510) 849-5258 (area code first) d. Fax: (510) 540-2305 (area code first)
e. Email: msnider @dtsc.ca.gov

4. Program/Activity: HWM-RPD

5. TAT Level: 2

*Unit Chief's Signature: (if TAT level = 1)

6. Sampling Information:
a. Date/Time Sampled: see 8(g) (mm/dd/yy) (#:## AM/PM)
b. Location: EPA ID No.
Site: UCCE Richmond Field Station c/o Steve Quarles
Address: 1301 South 46th Street, Bldg. 478 (street number)
Richmond, CA 94804 (city, state, zip)
GPS-Lat: GPS-Long:
GPS-Alt: GPS-Depth:

7. Codes (select from drop down list or fill in if applicable)
a. Office
b. INDEX
c. PCA 22090
d. MPC
e. SITE
f. County

8. Samples:

a.ID	b. Collector's No.	c. ECL No.	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
1	Oak Control	AQ02212	wood	16 oz clear glass jar	1	cut: 4/30/07 grd< 2mm: 5/30/07
2	DF Control	AQ02213	"	"	1	cut: 10/26/06 grd< 2mm: 6/26/07
3	Oak Creosote	AQ02214	"	"	1	cut: 5/17/07 grd< 2mm: 5/30/07
4	DF Creosote-Comp1	AQ02215	"	"	1	cut 6/15/07 grd<2mm 6/26/07
5	TCLP Ext. Blank	AQ02216	Aq. Liq.	1L PTFE jar	2	cut 6/17/07 TCLP 6/26/07
6	TCLP Ext. DF Control	AQ02217	Aq. Liq.	"	2	" "
7	TCLP Ext. DF Creosote - Comp1	AQ02218	Aq. Liq.	"	2	" "
8						
9						

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas. For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
		GCMS--Semivolatiles(8270C)	1-4
Other Metals:			
c. TCLP Analysis		d. Other Analysis	
Semivolatiles (do TCLP regardless)	5-7		

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Waste Characterization

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)
TC limit for TCLP extracts

12. Supplemental Requests: Enter sample IDs as described in Item 9

Desired Analysis	Sample(s) ID

Initials:

Date:

ECL

13. ECL Lab Remarks:
Must extract TCLP ext. by 7/4; vol. 1800 mL
There were 2 1-L jars @ for Samples 5, 6 & 7

FIELD

LAB

14. Chain of Custody:

	Name	Title	Signature	Inclusive Dates of Custody
a.	Martin Snider	RS II	/Martin Snider	6/21/07 to 6/28/07
b.	Barbara Bush	Lab Technician	Barbara Bush	6/28/07 to
c:				to
d.				to

COC

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580 5797 OR (213) 977-7928

INDEX

EPA 8270C FOR SAMPLES AQ02212-AQ02218

TOTAL PAGES = 16

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-7928

REQUESTER: MARTIN SNIDER

SCL NO. AQ02212-AQ02215

SAMPLE LOCATION: UCCE RICHMOND FIELD STATION
1301 SOUTH 46TH STREET, BLDG 478
RICHMOND, CA 94804

DATE REPORTED: 9/6/2007

METHODS:

EPA METHOD 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA METHOD 3540	SOXHLET EXTRACTION
EPA METHOD 3640	GEL PERMEATION COLUMN CLEANUP

SVOCs BY GC/MS

							QUANTITATION LIMIT			
SCL NO.		AQ02212	AQ02213	AQ02214	AQ02215		AQ02212	AQ02213	AQ02214	AQ02215
COL. NO.	METHOD BLANK	OAK CONTROL	DF CONTROL	OAK CREOSOTE	DF CREOSOTE -COMP1	METHOD BLANK				
MATRIX	SAND	WOOD	WOOD	WOOD	WOOD	SAND				
ANALYTE UNIT	MG/KG	MG//KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
1,3-DICHLOROBENZENE	ND	ND	ND	ND	ND	2	2	2	2	2
BIS(2-CHLOROETHYL)ETHER	ND	ND	ND	ND	ND	2	2	2	2	2
1,4-DICHLOROBENZENE (TCLP)	ND	ND	ND	ND	ND	2	2	2	2	2
1,2-DICHLOROBENZENE	ND	ND	ND	ND	ND	2	2	2	2	2
HEXACHLOROETHANE (TCLP)	ND	ND	ND	ND	ND	2	2	2	2	2
'S(2-CHLOROISOPROPYL)ETHER	ND	ND	ND	ND	ND	2	2	2	2	2
-NITROSO-DI-N-PROPYLAMINE	ND	ND	ND	ND	ND	2	2	2	2	2
NITROBENZENE (TCLP)	ND	ND	ND	ND	ND	2	2	2	2	2
ISOPHORONE	ND	ND	ND	ND	ND	2	2	2	2	2
1,2,4-TRICHLOROBENZENE	ND	ND	ND	ND	ND	2	2	2	2	2
BIS(2-CHLOROETHOXY)METHANE	ND	ND	ND	ND	ND	2	2	2	2	2
HEXACHLOROBUTADIENE (TCLP)	ND	ND	ND	ND	ND	2	2	2	2	2
HEXACHLOROCYCLOPENTADIENE	ND	ND	ND	ND	ND	2	2	2	2	2
2-CHLORONAPHTHALENE	ND	ND	ND	ND	ND	2	2	2	2	2
DIMETHYLPHTHALATE	ND	ND	ND	ND	ND	2	2	2	2	2
2,6-DINITROTOLUENE	ND	ND	ND	ND	ND	2	2	2	2	2
4-CHLOROPHENYL PHENYL ETHER	ND	ND	ND	ND	ND	2	2	2	2	2
2,4-DINITROTOLUENE (TCLP)	ND	ND	ND	ND	ND	2	2	2	2	2
DIETHYL PHTHALATE	ND	ND	ND	ND	ND	2	2	2	2	2

NOTES: ND=NOT DETECTED MG/KG=MILLIGRAM PER KILOGRAM

QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE.AMOUNT REPORTED IS AN ESTIMATE

** = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYTES IN **BOLD** FOLLOWED BY "**(TCLP)**" ARE ON TC RULE LIST.

SAMPLE PREPARATION	ANALYST	SUPERVISOR
YUE-DONG MEN 9/11/07	KENNETH SINN 9-11-07	RUSS CHIN 9/10/07
DATE	DATE	DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-7928

SCL NO.: AQ02212-AQ02215

SVOCs BY GC/MS

	SCL NO.		AQ02212	AQ02213	AQ02214	AQ02215	QUANTITATION LIMIT				
	COL. NO.	METHOD BLANK	OAK CONTROL	DF CONTROL	OAK CREOSOTE	DF CREOSOTE -COMP1	METHOD BLANK	AQ02212	AQ02213	AQ02214	AQ02215
	MATRIX	SAND	WOOD	WOOD	WOOD	WOOD	SAND				
ANALYTE	UNIT	MG/KG	MG//KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
N-NITROSODIPHENYLAMINE		ND	ND	ND	ND	ND	2	2	2	2	2
4-BROMOPHENYL PHENYL ETHER		ND	ND	ND	ND	ND	2	2	2	2	2
HEXACHLOROBENZENE (TCLP)		ND	ND	ND	ND	ND	2	2	2	2	2
DI-N-BUTYL PHTHALATE		ND	ND	ND	ND	ND	2	2	2	2	2
BUTYL BENZYL PHTHALATE		ND	ND	ND	ND	ND	2	2	2	2	2
BIS(2-ETHYL HEXYL)PHTHALATE		ND	ND	ND	ND	ND	2	2	2	2	2
3,3-DICHLOROBENZIDINE		ND	ND	ND	ND	ND	2	2	2	2	2
DI-N-OCTYL PHTHALATE		ND	ND	ND	ND	ND	2	2	2	2	2
NAPHTHALENE		ND	ND	ND	**1200**	**2000**	2	2	2	200	200
ACENAPHTHALENE		ND	ND	ND	ND	ND	2	2	2	2	2
ACENAPHTHENE		ND	ND	ND	**700**	**1000**	2	2	2	200	200
FLUORENE		ND	ND	ND	**580**	**700**	2	2	2	200	200
PHENANTHRENE		ND	ND	ND	**2400**	**2800**	2	2	2	200	200
ANTHRACENE		ND	ND	ND	**500**	**640**	2	2	2	200	200
FLUORANTHENE		ND	ND	ND	**1300**	**1800**	2	2	2	200	200
PYRENE		ND	ND	ND	**900**	**1500**	2	2	2	200	200
BENZO(A)ANTHRACENE		ND	ND	ND	ND	**330**	2	2	2	2	200
CHRYSENE		ND	ND	ND	ND	ND	2	2	2	2	2
BENZO(B)FLUORANTHENE		ND	ND	ND	ND	**(250)**	2	2	2	2	200
BENZO(K)FLUORANTHENE		ND	ND	ND	**38**	ND	2	2	2	2	2
BENZO(A)PYRENE		ND	ND	ND	**(130*)**	**(200)**	2	2	2	200	200
IDENO(1,2,3-CD)PYRENE		ND	ND	ND	ND	ND	2	2	2	2	2
DIBENZ(A,H)ANTHRACENE		ND	ND	ND	ND	ND	2	2	2	2	2
BENZO(GHI)PERYLENE		ND	ND	ND	ND	ND	2	2	2	2	2

NOTES: ND=NOT DETECTED MG/KG=MILLIGRAM PER KILOGRAM

QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

( )=ESTIMATED VALUE

* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

** = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYTES IN **BOLD** FOLLOWED BY "**(TCLP)**" ARE ON TC RULE LIST.

SAMPLE PREPARATION		ANALYST		SUPERVISOR	
YUE-DONG MEN	9/11/07 DATE	KENNETH SINN	9-11-07 DATE	RUSS CHIN	9/10/07 DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-7928

VOCs BY GC/MS

	SCL NO.		AQ02212	AQ02213	AQ02214	AQ02215	QUANTITATION LIMIT				
	COL. NO.	METHOD BLANK	OAK CONTROL	DF CONTROL	OAK CREOSOTE	DF CREOSOTE -COMP1	METHOD BLANK	AQ02212	AQ02213	AQ02214	AQ02215
	MATRIX	SAND	WOOD	WOOD	WOOD	WOOD	SAND				
ANALYTE	UNIT	MG/KG	MG//KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
2-CHLOROPHENOL		ND	ND	ND	ND	ND	2	2	2	2	2
PHENOL		ND	ND	ND	**22**	**34**	2	2	2	2	2
2-NITROPHENOL		ND	ND	ND	ND	ND	2	2	2	2	2
2,4-DIMETHYL PHENOL		ND	ND	ND	ND	ND	2	2	2	2	2
2,4-DICHLOROPHENOL		ND	ND	ND	ND	ND	2	2	2	2	2
4-CHLORO-3-METHYL PHENOL		ND	ND	ND	ND	ND	2	2	2	2	2
2,4,6-TRICHLOROPHENOL (TCLP)		ND	ND	ND	ND	ND	2	2	2	2	2
2,4-DINITROPHENOL		ND	ND	ND	ND	ND	25	25	25	25	25
2-METHYL-4,6-DINITROPHENOL		ND	ND	ND	ND	ND	25	25	25	25	25
4-NITRO PHENOL		ND	ND	ND	ND	ND	25	25	25	25	25
PENTACHLORO PHENOL (TCLP)		ND	ND	ND	ND	ND	25	25	25	25	25
BENZYL ALCOHOL		ND	ND	ND	ND	ND	2	2	2	2	2
METHYLPHENOL (TCLP)		ND	ND	ND	**10**	**17**	2	2	2	2	2
4 &/OR 3-METHYLPHENOL (TCLP)		ND	ND	ND	**33**	**52**	2	2	2	2	2
CARBAZOLE		ND	ND	ND	**220**	**220**	2	2	2	200	200
4-CHLOROANILINE		ND	ND	ND	ND	ND	2	2	2	2	2
2-METHYL NAPHTHALENE		ND	ND	ND	**400**	**610**	2	2	2	200	200
2,4,5-TRICHLOROPHENOL (TCLP)		ND	ND	ND	ND	ND	2	2	2	2	2
2-NITROANILINE		ND	ND	ND	ND	ND	2	2	2	2	2
DIBENZOFURAN		ND	ND	ND	**460**	**530**	2	2	2	200	200
3-NITROANILINE		ND	ND	ND	ND	ND	2	2	2	2	2
4-NITROANILINE		ND	ND	ND	ND	ND	2	2	2	2	2

NOTES: CLEANUP PROCEDURE PERFORMED ONLY ON SAMPLES AQ02214, AQ02215 AND AQ02214 DUPLICATE.

NOTES: ND=NOT DETECTED MG/KG=MILLIGRAM PER KILOGRAM

QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

** = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYTES IN **BOLD** FOLLOWED BY "**(TCLP)**" ARE ON TC RULE LIST.

SAMPLE PREPARATION	ANALYST	SUPERVISOR
9/10/07	9-11-07	9/10/07
YUE-DONG MEN DATE	KENNETH SINN DATE	RUSS CHIN DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-7928

REQUESTER: MARTIN SNIDER

SCL NO. AQ02216-AQ02218

SAMPLE LOCATION: UCCE RICHMOND FIELD STATION
1301 SOUTH 46TH STREET, BLDG 478
RICHMOND, CA 94804

DATE REPORTED: 9/6/2007

METHODS: EPA METHOD 8270C SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA METHOD 3510 SEPARATORY FUNNEL LIQ/LIQ EXTRACTION

SVOCs BY GC/MS

							QUANTITATION LIMIT			
	SCL NO.		AQ02216	AQ02217	AQ02218			AQ02216	AQO2217	AQ02218
	COL. NO.	METHOD BLANK	TCLP EXT. BLANK	TCLP EXT. DF CONTROL	TCLP EXT. DF CREOSOTE	Com 1	METHOD BLANK			
	MATRIX	WATER	TCLP EXTRACT	TCLP EXTRACT	TCLP EXTRACT		WATER			
ANALYTE	UNIT	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	MG/L	MG/L
1,3-DICHLOROBENZENE		ND	ND	ND	ND		0.04	0.04	0.04	0.04
BIS(2-CHLOROETHYL)ETHER		ND	ND	ND	ND		0.04	0.04	0.04	0.04
1,4-DICHLOROBENZENE (TCLP)		ND	ND	ND	ND		0.04	0.04	0.04	0.04
1,2-DICHLOROBENZENE		ND	ND	ND	ND		0.04	0.04	0.04	0.04
HEXACHLOROETHANE (TCLP)		ND	ND	ND	ND		0.04	0.04	0.04	0.04
BIS(2-CHLOROISOPROPYL)ETHER		ND	ND	ND	ND		0.04	0.04	0.04	0.04
NITROSO-DI-N-PROPYLAMINE		ND	ND	ND	ND		0.04	0.04	0.04	0.04
NITROBENZENE (TCLP)		ND	ND	ND	ND		0.04	0.04	0.04	0.04
ISOPHORONE		ND	ND	ND	ND		0.04	0.04	0.04	0.04
1,2,4-TRICHLOROBENZENE		ND	ND	ND	ND		0.04	0.04	0.04	0.04
BIS(2-CHLOROETHOXY)METHANE		ND	ND	ND	ND		0.04	0.04	0.04	0.04
HEXACHLOROBUTADIENE (TCLP)		ND	ND	ND	ND		0.04	0.04	0.04	0.04
HEXACHLOROCYCLOPENTADIENE		ND	ND	ND	ND		0.04	0.04	0.04	0.04
2-CHLORONAPHTHALENE		ND	ND	ND	ND		0.04	0.04	0.04	0.04
DIMETHYLPHTHALATE		ND	ND	ND	ND		0.04	0.04	0.04	0.04
2,6-DINITROTOLUENE		ND	ND	ND	ND		0.04	0.04	0.04	0.04
4-CHLOROPHENYL PHENYL ETHER		ND	ND	ND	ND		0.04	0.04	0.04	0.04
2,4-DINITROTOLUENE (TCLP)		ND	ND	ND	ND		0.04	0.04	0.04	0.04
DIETHYL PHTHALATE		ND	ND	ND	ND		0.04	0.04	0.04	0.04

NOTES: ND=NOT DETECTED MG/L=MILLIGRAM PER LITER

QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE.AMOUNT REPORTED IS AN ESTIMATE

** = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYTES IN **BOLD** FOLLOWED BY "**(TCLP)**" ARE ON TC RULE LIST.

SAMPLE PREPARATION		ANALYST		SUPERVISOR	
Li-Dong Men	9/11/07	K. Sinn	9-11-07		9/10/07
LI-DONG MEN	DATE	KENNETH SINN	DATE	RUSS CHIN	DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-7928

SCL NO.: AQ02216-AQ02218

SVOCs BY GC/MS

	SCL NO.		AQ02216	AQ02217	AQ02218		QUANTITATION LIMIT				
	COL. NO.	METHOD BLANK	TCLP EXT. BLANK	TCLP EXT. DF CONTROL	TCLP EXT. DF CREOSOTE		METHOD BLANK	AQ02216	AQO2217	AQ02218	
	MATRIX	WATER	TCLP EXTRACT	TCLP EXTRACT	TCLP EXTRACT		WATER				
ANALYTE	UNIT	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	MG/L	MG/L	
N-NITROSODIPHENYLAMINE		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
4-BROMOPHENYL PHENYL ETHER		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
HEXACHLOROBENZENE (TCLP)		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
DI-N-BUTYL PHTHALATE		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
BUTYL BENZYL PHTHALATE		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
BIS(2-ETHYL HEXYL)PHTHALATE		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
3,3-DICHLOROBENZIDINE		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
DI-N-OCTYL PHTHALATE		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
NAPHTHALENE		ND	ND	ND	**2.5**		0.04	0.04	0.04	0.20	
ACENAPHTHALENE		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
ACENAPHTHENE		ND	ND	ND	**0.26**		0.04	0.04	0.04	0.04	
FLUORENE		ND	ND	ND	**0.12**		0.04	0.04	0.04	0.04	
PHENANTHRENE		ND	ND	ND	**0.16**		0.04	0.04	0.04	0.04	
ANTHRACENE		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
FLUORANTHENE		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
PYRENE		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
BENZO(A)ANTHRACENE		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
CHRYSENE		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
BENZO(B)FLUORANTHENE		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
BENZO(K)FLUORANTHENE		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
BENZO(A)PYRENE		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
IDENO(1,2,3-CD)PYRENE		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
DIBENZ(A,H)ANTHRACENE		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
BENZO(GHI)PERYLENE		ND	ND	ND	ND		0.04	0.04	0.04	0.04	

NOTES: ND=NOT DETECTED MG/L=MILLIGRAM PER LITER

QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

** = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYTES IN **BOLD** FOLLOWED BY "**(TCLP)**" ARE ON TC RULE LIST.

SAMPLE PREPARATION		ANALYST		SUPERVISOR	
Yue-Dong Men 9/11/07		K. Sinn 9-11-07		9/10/07	
YUE-DONG MEN	DATE	KENNETH SINN	DATE	RUSS CHIN	DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-7928

VOCs BY GC/MS

	SCL NO.		AQ02216	AQ02217	AQ02218		QUANTITATION LIMIT				
	COL. NO.	METHOD BLANK	TCLP EXT. BLANK	TCLP EXT. DF CONTROL	TCLP EXT. DF CREOSOTE		METHOD BLANK	AQ02216	AQO2217	AQ02218	
	MATRIX	WATER	TCLP EXTRACT	TCLP EXTRACT	TCLP EXTRACT		WATER				
ANALYTE	UNIT	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	MG/L	MG/L	
2-CHLOROPHENOL		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
PHENOL		ND	ND	ND	**0.70**		0.04	0.04	0.04	0.04	
2-NITROPHENOL		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
2,4-DIMETHYL PHENOL		ND	ND	ND	**0.40**		0.04	0.04	0.04	0.04	
2,4-DICHLOROPHENOL		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
4-CHLORO-3-METHYL PHENOL		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
2,4,6-TRICHLOROPHENOL (TCLP)		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
2,4-DINITROPHENOL		ND	ND	ND	ND		0.50	0.50	0.50	0.50	
2-METHYL-4,6-DINITROPHENOL		ND	ND	ND	ND		0.50	0.50	0.50	0.50	
4-NITRO PHENOL		ND	ND	ND	ND		0.50	0.50	0.50	0.50	
PENTACHLORO PHENOL (TCLP)		ND	ND	ND	ND		0.50	0.50	0.50	0.50	
BENZYL ALCOHOL		ND	ND	ND	**0.04**		0.04	0.04	0.04	0.04	
METHYLPHENOL (TCLP)		ND	ND	ND	**0.46**		0.04	0.04	0.04	0.04	
4 &/OR 3-METHYLPHENOL (TCLP)		ND	ND	ND	**0.94**		0.04	0.04	0.04	0.20	
CARBAZOLE		ND	ND	ND	**0.19**		0.04	0.04	0.04	0.04	
4-CHLOROANILINE		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
2-METHYL NAPHTHALENE		ND	ND	ND	**0.23**		0.04	0.04	0.04	0.04	
2,4,5-TRICHLOROPHENOL (TCLP)		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
2-NITROANILINE		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
DIBENZOFURAN		ND	ND	ND	**0.11**		0.04	0.04	0.04	0.04	
3-NITROANILINE		ND	ND	ND	ND		0.04	0.04	0.04	0.04	
4-NITROANILINE		ND	ND	ND	ND		0.04	0.04	0.04	0.04	

TENTATIVELY IDENTIFIED COMPOUNDS:

NOTES: ND=NOT DETECTED MG/L=MILLIGRAM PER LITER

QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

** = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYTES IN **BOLD** FOLLOWED BY "**(TCLP)**" ARE ON TC RULE LIST.

SAMPLE PREPARATION		ANALYST		SUPERVISOR	
Yue-Dong Men 9/11/07		K. Sinn 9-11-07		9/10/07	
YUE-DONG MEN	DATE	KENNETH SINN	DATE	RUSS CHIN	DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-9728

11

REQUESTER: MARTIN SNIDER

DATE SAMPLE RECEIVED: 6/28/2007

SAMPLING LOCATION: UCCE RICHMOND FIELD STATION
1301 SOUTH 46TH STREET, BLDG 478
RICHMOND, CA 94804

DATE SAMPLE PREPARED: 7/2/2007-7/3/2007

DATE SAMPLE ANALYZED: 7/13/200, 7/18/2007 & 8/24/2007

METHODS:
EPA METHOD 8270C SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA METHOD 3540 SOXHLET EXTRACTION
EPA METHOD 3640 GEL PERMEATION COLUMN CLEANUP

QC REPORT FOR

A: METHOD STANDARD RECOVERY
B: LABORATORY CONTROL SAMPLE
C: SAMPLE DUPLICATE ANALYSIS

	A		B	
	METHOD STANDARD		LABORATORY CONTROL SAMPLE	
	RECOVERY	CONTROL LIMIT	FOUND	CONTROL LIMIT
ANALYTE	%	%	MG/KG	MG/KG
PHENOL	96.8	59.8-117	34.7	28-52
2-CHLOROPHENOL	91.1	50.7-137	32.2	28-52
1,4-DICHLOROBENZENE	12.4*	25.8-100	2.6*	14-26
N-NITROSO-DI-N-PROPYLAMINE	92.4	60.8-115	17.4	14-26
1,2,4-TRICHLOROBENZENE	60.7	48.2-115	12.0*	14-26
4-CHLORO-3-METHYL PHENOL	103	68.6-117	37.2	28-52
ACENAPHTHENE	109	77.8-111	19.6	14-26
4-NITROPHENOL	112	60.0-128	41.0	28-52
2,4-DINITROTOLUENE	112	73.0-119	20.1	14-26
PENTACHLOROPHENOL	86.7	64.7-125	46.8	42-78
PYRENE	110	73.1-117	19.6	14-26

C			
SAMPLE DUPLICATE ANALYSIS			
PERFORMED ON : SCL NO. AQ02214			
MATRIX : WOOD			
	RUN 1	RUN 2	RPD
COMPOUND	MG/KG	MG/KG	%
Naphthalene	1242	1707	31*
2-MethylNaphthalene	400	547	31*
Acenaphthene	697	1001	35*
Dibenzofuran	464	718	42*
Fluorene	580	897	42*
Phenanthrene	2364	3570	41*
Fluoranthene	1319	1970	39*
Pyrene	902	1355	40*

[ ] NOT ANALYZED (SEE NOTES)

NOTE: * = OUTSIDE ESTABLISHED CONTROL LIMIT.

SAMPLE PREPARATION	ANALYST	SUPERVISOR
9/11/07	9-11-07	9/10/07
E-DONG-MEN DATE	KENNETH SINN DATE	RUSS CHIN DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-9728

REQUESTER: MARTIN SNIDER

SAMPLING LOCATION: UCCE RICHMOND FIELD STATION
1301 SOUTH 46TH STREET, BLDG 478
RICHMOND, CA 94804

DATE SAMPLE RECEIVED: 6/28/2007
DATE SAMPLE PREPARED: 7/5/2007
DATE SAMPLE ANALYZED: 7/17/2007 & 7/28/2007

METHODS: EPA METHOD 8270C SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA METHOD 3510 SEPARATORY FUNNEL LIQUID/LIQUID EXTRACTION

QC REPORT FOR

A: METHOD STANDARD RECOVERY
B: LABORATORY CONTROL SAMPLE
C: SAMPLE DUPLICATE ANALYSIS

	A		B	
	METHOD STANDARD		LABORATORY CONTROL SAMPLE	
	RECOVERY	CONTROL LIMIT	FOUND	CONTROL LIMIT
ANALYTE	%	%	UG/L	UG/L
PHENOL	80.5	33.6-124	639	560-1040
2-CHLOROPHENOL	109	64.8-129	870	560-1040
1,4-DICHLOROBENZENE	104	25.3-132	410	280-520
N-NITROSO-DI-N-PROPYLAMINE	113	64.9-132	440	280-520
1,2,4-TRICHLOROBENZENE	110	41.2-124	437	280-520
4-CHLORO-3-METHYL PHENOL	112	68.0-119	901	560-1040
ACENAPHTHENE	113	61.9-125	445	280-520
4-NITROPHENOL	90.4	27.9-103	694	560-1040
2,4-DINITROTOLUENE	120*	67.9-118	465	280-520
PENTACHLOROPHENOL	82.9	60.1-124	1076	840-1560
PYRENE	111	71.0-126	472	280-520

C			
SAMPLE DUPLICATE ANALYSIS			
PERFORMED ON : SCL NO. AQ02218			
MATRIX : TCLP EXTRACT			
	RUN 1	RUN 2	RPD
COMPOUND	MG/L	MG/L	%
NAPHTHALENE	2.5	2.9	14.8
3+4-METHYLPHENOL	0.94	1.1	15.7
PHENOL	0.70	0.79	12.1
2-METHYLPHENOL	0.46	0.46	0.0
2,4-DIMETHYLPHENOL	0.40	0.41	2.5

[ ] NOT ANALYZED (SEE NOTES)

NOTE: * = OUTSIDE ESTABLISHED CONTROL LIMIT.

SAMPLE PREPARATION	ANALYST	SUPERVISOR
E-DONG MEN 9/11/07 DATE	KENNETH SINN 9-11-07 DATE	RUSS CHIN 9/10/07 DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-7928

REQUESTER: MARTIN SNIDER

DATE SAMPLE RECEIVED: 6/28/2007

SAMPLING LOCATION: UCCE RICHMOND FIELD STATION
1301 SOUTH 46TH STREET, BLDG 478
RICHMOND, CA 94804

DATE SAMPLE PREPARED: 7/2/2007-7/3/2007

DATE SAMPLE ANALYZED: 7/13/2007-7/18/2007

METHODS: EPA METHOD 8270C SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA METHOD 3540 SOXHLET EXTRACTION
EPA METHOD 3640 GEL PERMEATION COLUMN CLEANUP

QC REPORT FOR MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) PERCENT RECOVERY

MATRIX SPIKE PERFORMED ON AQ02212

☐ NOT ANALYZED (SEE NOTES)

TYPE OF MATRIX WOOD

	AMOUNT OF ANALYTE IN SAMPLE	AMOUNT OF ANALYTE ADDED	MATRIX SPIKE		MATRIX SPIKE DUPLICATE		AVE % REC	CONTROL LIMITS FOR % REC	R % D BETWEEN MS/MSD	CONTROL LIMITS FOR RPD
			AMOUNT RECOVERED	%REC	AMOUNT RECOVERED	%REC				
COMPOUND	MG/KG	MG/KG	MG/KG	%	MG/KG	%	%	%	%	%
PHENOL	<2	40	45.6	114	44.2	111	113	57.0-125	2.7	25
2-CHLOROPHENOL	<2	40	44.9	112	43.8	110	111	54.9-118	1.8	25
1,4-DICHLOROBENZENE	<2	20	17.3	86.5	16.1	80.1	83.3	38.3-117	7.7	25
N-NITROSO-DI-N-PROPYLAMINE	<2	20	22.8	114	21.6	108	111	48.9-137	5.4	25
1,2,4-TRICHLOROBENZENE	<2	20	22.0	110*	21.2	106	108*	63.3-107	3.7	25
4-CHLORO-3-METHYL PHENOL	<2	40	45.0	113	44.4	111	112	60.8-132	1.8	25
ACENAPHTHENE	<2	20	23.4	117*	22.5	113	115	74.4-114	3.5	25
4-NITROPHENOL	<25	40	59.1	148	56.1	140	144	35.5-148	5.6	25
2,4-DINITROTOLUENE	<2	20	25.4	127	24.4	122	125	54.3-129	4.0	25
PENTACHLOROPHENOL	<25	60	70.7	118	69.7	116	117	48.5-134	1.7	25
PYRENE	<2	20	26.1	131	25.1	126	129	52.4-131	3.9	25

NOTE: * = OUTSIDE OF CONTROL LIMIT.

SAMPLE PREPARATION

YUE-DONG MEN 9/11/07
YUE-DONG MEN DATE

ANALYST

KENNETH SINN 9-11-07
KENNETH SINN DATE

SUPERVISOR

RUSS CHIN 9/10/07
RUSS CHIN DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-7928

:QUESTER: MARTIN SNIDER

DATE SAMPLE RECEIVED: 6/28/2007

SAMPLING LOCATION: UCCE RICHMOND FIELD STATION
1301 SOUTH 46TH STREET, BLDG 478
RICHMOND, CA 94804

DATE SAMPLE PREPARED: 7/5/2007

DATE SAMPLE ANALYZED: 7/17/2007 & 7/18/2007

METHODS: EPA METHOD 8270C SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA METHOD 3510 SEPARATORY FUNNEL LIQ./LIQ. EXTRACTION

QC REPORT FOR MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) PERCENT RECOVERY

MATRIX SPIKE PERFORMED ON AQ02217

☐ NOT ANALYZED (SEE NOTES)

TYPE OF MATRIX TCLP EXTRACT

	AMOUNT OF ANALYTE IN SAMPLE	AMOUNT OF ANALYTE ADDED	MATRIX SPIKE		MATRIX SPIKE DUPLICATE		AVE % REC	CONTROL LIMITS FOR % REC	R % D BETWEEN MS/MSD	CONTROL LIMITS FOR RPD
			AMOUNT RECOVERED	%REC	AMOUNT RECOVERED	%REC				
COMPOUND	UG/L	UG/L	UG/L	%	UG/L	%	%	%	%	%
PHENOL	<40	800	659	82.4	780	97.5	90.0	57.0-119	16.8	25
2-CHLOROPHENOL	<40	800	847	106	1039	130*	118	81.9-119	20.3	25
1,4-DICHLOROBENZENE	<40	400	405	101	481	120	111	24.1-134	17.2	25
N-NITROSO-DI-N-PROPYLAMINE	<40	400	460	115	525	131*	123*	76.1-121	13.0	25
1,2,4-TRICHLOROBENZENE	<40	400	423	106	501	125	116	46.8-123	16.5	25
4-CHLORO-3-METHYL PHENOL	<40	800	886	111	1066	133*	122*	71.6-120	18.0	25
ACENAPHTHENE	<40	400	458	115	530	133*	124*	66.9-119	14.5	25
4-NITROPHENOL	<500	800	816	102	984	123*	113	38.2-116	18.7	25
2,4-DINITROTOLUENE	<40	400	480	120	550	138*	129*	62.7-125	14.0	25
PENTACHLOROPHENOL	<500	1200	2397	200*	2821	235*	218*	66.3-124	16.1	25
PYRENE	<40	400	449	112	513	128	120	66.8-129	13.3	25

NOTE: * = OUTSIDE OF CONTROL LIMIT.
CONTROL LIMITS WERE ESTABLISHED FOR WATER SAMPLES. LIMITS USED MAY NOT BE APPLICABLE TO TCLP EXTRACT SAMPLES.

SAMPLE PREPARATION

YUE-DONG MEN 9/11/07
DATE

ANALYST

KENNETH SINN 9-11-07
DATE

SUPERVISOR

RUSS CHIN 9/10/07
DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 WEST TEMPLE STREET, LOS ANGELES CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-7928

REQUESTER: MARTIN SNIDER

DATE SAMPLE RECEIVED: 6/27/2007

SAMPLING LOCATION: UCCE RICHMOND FIELD STATION
1301 SOUTH 46TH STREET, BLDG 478
RICHMOND, CA 94804

DATE SAMPLE PREPARED: 7/2/2007 & 7/3/2007

DATE SAMPLE ANALYZED: 7/13/2007 & 7/18/2007

METHODS:
EPA METHOD 8270C SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA METHOD 3540 SOXHLET EXTRACTION
EPA METHOD 3640 GEL PERMEATION COLUMN CLEANUP

QC REPORT FOR SURROGATE SPIKE % RECOVERY

QC SAMPLES OR	2-FLUORORPHENOL			PHENOL - d6			NITROBENZENE - d5			2 - FLUOROBIPHENYL			2,4,6-TRIBROMOPHENOL		
	ADDED	RECOVERED		ADDED	RECOVERED		ADDED	RECOVERED		ADDED	RECOVERED		ADDED	RECOVERED	
SAMPLE NO.	MG/KG	MG/KG	% REC	MG/KG	MG/KG	% REC	MG/KG	MG/MG	% REC	MG/KG	MG/KG	% REC	MG/KG	MG/KG	% REC
METHOD BLANK	40	23.3	58.3	40	27.3	68.3	20	11.0	55	20	14.3	71.5	40	27.4	68.5
METHOD STANDARD	40	31.0	77.5	40	37.0	92.5	20	17.9	89.5	20	21.0	105	40	38.5	96.3
LCS	40	31.1	77.8	40	36.6	91.5	20	17.3	86.5	20	19.9	99.5	40	39.7	99.3
AQ02212 MS	40	42.6	107	40	45.6	114	20	21.5	108	20	22.3	112	40	47.5	119
AQ02212 MSD	40	40.1	100	40	42.7	107	20	20.4	102	20	21.3	107	40	45.3	113
AQ02212	40	44.7	112	40	46.9	117	20	22.6	113	20	22.9	115	40	48.1	120
AQ02213	40	41.1	103	40	43.0	108	20	20.7	104	20	21.5	108	40	42.0	105
AQ02214	40	38.3	95.8	40	43.4	109	20	27.3	137	20	21.9	110	40	40.5	100
AQ02214 (1:100 DIL)	40	NA	-	40	NA	-	20	NA	-	20	NA	-	40	NA	-
AQ02215	40	39.3	98.3	40	43.9	110	20	32.3	162*	20	25.6	128*	40	0*	0*
AQ02215 (1:100 DIL)	40	NA	-	40	NA	-	20	NA	-	20	NA	-	40	NA	-
CONTROL LIMIT FOR %REC	38.6-149			56.7-141			38.2-138			60.1-123			41.6-128		

NOTES: * = OUTSIDE OF CONTROL LIMIT.

SURROGATES WERE DILUTED OUT IN THE DILUTED SAMPLES.

SAMPLE PREPARATION		ANALYST		SUPERVISOR	
YUE-DONG MEN	DATE	KENNETH SINN	DATE	RUSS CHIN	DATE
Yue-Dong Men 9/11/07		K. Sinn 9-11-07		R Chin 9/10/07	

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 WEST TEMPLE STREET, LOS ANGELES CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-7928

REQUESTER: MARTIN SNIDER

DATE SAMPLE RECEIVED: 6/28/2007

SAMPLING LOCATION: UCCE RICHMOND FIELD STATION
1301 SOUTH 46TH STREET, BLDG 478
RICHMOND, CA 94804

DATE SAMPLE PREPARED: 7/5/2007

DATE SAMPLE ANALYZED: 7/17/2007 & 7/18/2007

METHODS: EPA METHOD 8270C SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA METHOD 3510 SEPARATORY FUNNEL LIQUID/LIQUID EXTRACTION

QC REPORT FOR SURROGATE SPIKE % RECOVERY

QC SAMPLES OR	2-FLUORORPHENOL			PHENOL - d6			NITROBENZENE - d5			2 - FLUOROBIPHENYL			2,4,6-TRIBROMOPHENOL		
	ADDED	RECOVERED		ADDED	RECOVERED		ADDED	RECOVERED		ADDED	RECOVERED		ADDED	RECOVERED	
SAMPLE NO.	UG/L	UG/L	% REC	UG/L	UG/L	% REC	UG/L	UG/L	% REC	UG/L	UG/L	% REC	UG/L	UG/L	% REC
METHOD BLANK	800	644	80.5	800	783	97.9	400	306	76.5*	400	407	102	800	820	103
METHOD STANDARD	800	768	96	800	669	83.6	400	472	118	400	484	121*	800	1015	127*
LCS	800	718	90	800	618	77.3	400	445	111	400	465	116*	800	949	119*
AQ02216	800	741	92.6	800	636	79.5	400	495	124*	400	490	123*	800	970	121*
AQ02217	800	820	103	800	708	88.5	400	550	138*	400	578	145*	800	1116	140*
AQ02217 MS	800	727	90.9	800	675	84.4	400	416	104	400	444	111	800	958	120*
AQ02217 MSD	800	813	102	800	742	92.8	400	470	118	400	495	124*	800	1040	130*
AQ02218	800	767	95.9	800	669	83.6	400	489	122*	400	504	126*	800	987	123*
AQ02218 (1:5 DIL)	800	NA	-	800	NA	-	400	NA	-	400	NA	-	800	NA	-
AQ02218 DUP	800	843	105	800	787	98.4	400	506	127*	400	526	132*	800	1027	128*
AQ02218 (1:5 DIL) DUP	800	NA	-	800	NA	-	400	NA	-	400	NA	-	800	NA	-
CONTROL LIMIT FOR %REC	71.5-122			40.5-123			72.9-118			74.2-112			60.4-110		

NOTE: * = OUTSIDE OF CONTROL LIMIT.

CONTROL LIMITS WERE ESTABLISHED FOR WATER SAMPLES. LIMITS USED MAY NOT BE APPLICABLE TO TCLP EXTRACT SAMPLES.

SURROGATES WERE DILUTED OUT IN THE DILUTED SAMPLES.

SAMPLE PREPARATION		ANALYST		SUPERVISOR	
9/24/07		9-21-07		9/21/07	
YUE-DONG MEN	DATE	KENNETH SINN	DATE	RUSS CHIN	DATE